

Application No. 09/935,213**Atty Docket: MKSI 1001-1****In the Specification:**

On page 3 and continuing onto page 4, please rewrite Paragraph [0012] as shown below:

[0012] Some arrangements for practicing the present invention are illustrated in Figures 2A-2D. At least one machine 203 communicates with at least one host 201. The host may be a controller or a management system for one or more machines. The host may be centralized, distributed among processors, or centralized with some functions distributed among processors. Software implementing aspects of the present invention may run 202 on the host (Figure 2B), on other equipment that listens to communications between the host and the machine (Figure 2A), or on other equipment that has protocol translation capabilities (Figure 2C). The equipment with translation capabilities may translate messages from a serial protocol to a network protocol or among other types of communication or transport protocols. For instance, it may translate from a CAN+ or IEC 62026 bus protocol to an Ethernet protocol. One description of CAN+ bus and other sensor / actuator bus (SAB) protocols appears in James R. Moyne, Nader Najafi, Daniel Judd and Allen Stock, "Analysis of Sensor Actuator Bus Interoperability Standard Alternatives for Semiconductor Manufacturing", Sensor Expo Conference Proceedings (Sept. 1994). SAB protocols which may be used with the present invention include WorldFIP fieldbus, DeviceNet protocol, SDS, J-1939, LONWorks protocol, Seriplex protocol, ISP Fieldbus, and BITBUS, and the later, derivative or updated implementations of these protocols. Software implementing aspects of the present invention also may run on equipment that listens to communications between the host and the machine (Figure 2D,) tapping into communications lines. In configurations 2A, ~~[[2B]]~~ 2C and 2D, the listening device is removable and distinct from either the host or tool. It can be added near the host or tool, or remote from either the host or tool. It functions independently of either the host or tool. When removed, it is reusable with another tool without physical alteration, with reprogramming or resetting. In configuration 2D, several types of couplings can be used to tap into the communication lines. A connector may be inserted into the lines. The tap lines leading out of the connector may be physically coupled to the communications lines, may be magnetically coupled or in any other way effective to

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split or replicate the signal in the communication lines. A hub with an extra port can supply access. Magnetic sensors may be placed proximate to the communications line to sense signals in the lines to provide magnetic coupling without inserting a connector or hub in the communications lines.